BUYERS LABORATORY INC.
Lab Test Report

A Comprehensive BLI Laboratory Evaluation

Canon imageRUNNER 4570

45 PPM Copier • Printer • Scanner • Fax

Test duration: Two months, including a 170,000-impression durability test.

PERFORMANCE RATINGS

BUYERS LABORATORY INC. HIGHLY RECOMMENDED 2005 LAB TESTED

Reliability	Very Good
Multitasking	Good
Administrative Utilities	Very Good
Ease of Network Setup	Very Good
Feedback to Workstations	Fair
Print Drivers	Very Good
Applications Compatibility	Excellent
Scan Function	Excellent
Print / Copy Quality	Very Good
Print / Copy Productivity	Good
Ease of Use	Excellent
Feature Set	Good
Toner Yield	Fair
Cost Per Page	Good
Value	Good

Rating Scale: Excellent, Very Good, Good, Fair, Poor

Manufacturer's maximum recommended monthly volume: 170,000 impressions.
BLI's recommended monthly volume for optimum performance: Up to 85,000 impressions.
More information on the Canon imageRUNNER 4570 is available through bliQ (www.buyerslab.com/bliQ).

LAB TEST

BLI RECOMMENDATION

A compact unit, the Canon imageRUNNER 4570 gave a strong overall performance in BLI's rigorous two-month laboratory evaluation, as tested with its optional Multi-PDL Print Kit-E1 and Universal Send scan functionality. In addition to demonstrating very good reliability, it offers excellent ease of use, very good output quality, good productivity and a competitive cost per page. Another of its strengths is the flexibility it gives users to choose between two excellent scan solutions—Canon's Universal Send and eCopy's ShareScan OP. The unit features Canon's MEAP architecture, which enables it to run embedded applications that add functionality (including eCopy ShareScan OP for MEAP), customize the control panel to streamline workflow and integrate with a range of document management applications. Although its PM interval is shorter than that of competitive units, this unit proved very reliable and is highly recommended for monthly volumes of up to 85,000 impressions.

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Performance Overview

Reliability

VERY GOOD

\+ Completing its 170,000-impression durability test with just one service call, which was simply for scheduled preventive maintenance that was inadvertently missed (a message indicating a PM was due was not displayed) and four misfeeds, for a misfeed rate of one per 42,500 impressions, the Canon imageRUNNER 4570 proved to be highly reliable.

– The unit's PM interval, at 60,000 impressions, is substantially shorter than the average for units in this speed range. In fact, it's the shortest. In addition, the life of the unit's drum, at 85,000, is lower than average and does not coincide with the PM intervals, potentially resulting in the need for more frequent service intervention than competitive models. It should be noted, though, that although the PMs for this unit were inadvertently missed, the unit ran without any problems until 160,000 impressions into the test, when image quality degraded.

Multitasking

GOOD

\+ The unit offers good multitasking capabilities overall, with no hesitation or delays between jobs or while programming jobs.

– Up to four copy jobs can be programmed ahead and initiated while another copy job is in progress (five while a print job is in progress). A sixth job can be programmed ahead, but will not be scanned into memory until a reserve job slot becomes available. Some models in this speed range enable users to program a greater number of copy jobs while another is in progress.

\+ The number of print jobs that can reside at the device is limited only by resources.

\+ Up to five copy jobs can always reside at the device, regardless of the number of print jobs that are in queue.

– To reserve a copy job while copy jobs are running or reserved, the user must select "Done" from the dialog box that pops up on the screen showing selected features after a job is programmed. This closes the dialog box and allows the user to program another job. With some systems, the user can reserve a copy job without having to press a key.

+, – and ○ represent positive, negative and neutral attributes, respectively.

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+ A priority level of 1, 2 or 3, with 1 being the highest priority, can be assigned to various functions. If the priority level for the copy function is set to 1, and print is set to 2 or 3, all remaining print jobs (except the current one, which runs to completion) are moved down in the queue to give priority to any waiting copy jobs. If functions are assigned equal priority, jobs are processed in the order in which they are received.

+ Although not required to program a copy job during a print job, the Interrupt function performed very well. An interrupting copy job can use all typical features (e.g., RADF, duplexing, finishing) and can begin scanning even before the current job stops. After completion of the interrupting job, the unit automatically restarts the job that was interrupted.

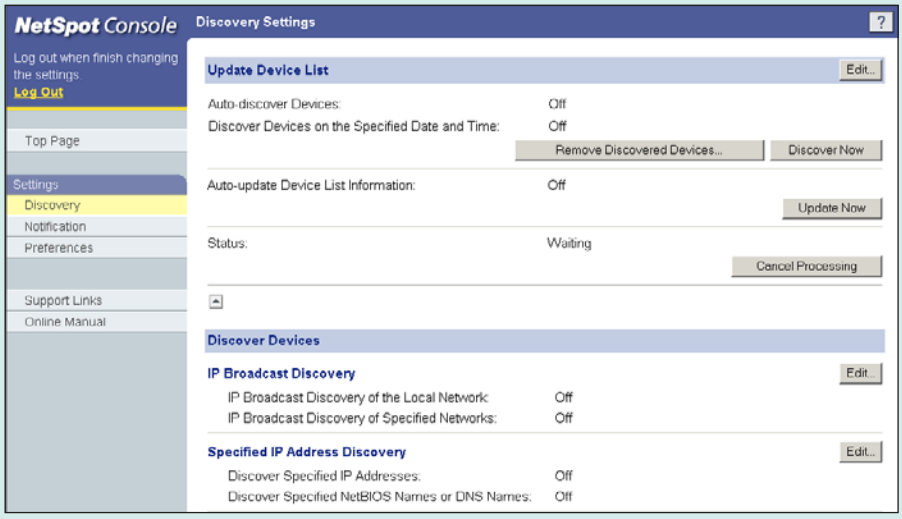
– The network TWAIN scan function requires a walk-up user to place the scanner in an online mode, during which Internet fax and copy functions cannot be used. Full capability is restored when the unit is returned to offline mode, which can be done manually at the control panel or the unit can be set up to automatically revert to offline mode after two minutes. This is not an issue with the Universal Send functionality.

○ Programming of the next copy job can begin as soon as all the pages of the current copy or scan job have been scanned.

Administrative Utilities

VERY GOOD

○ Administrative utilities for the imgeRUNNER 4570 include the unit's Remote User Interface (its embedded Web page) and NetSpot Console. NetSpot Console is now HTML-based and in addition to enabling discovery of Canon as well as non-Canon devices on the network, enables viewing all devices or



NetSpot Console

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groups of devices that meet specified criteria. Administrators can choose to view network devices in a list view or in a map view that shows their location in an enterprise.

+ License Management System eliminates the need for installation of a module or additional software to add capabilities such as Universal Send scan functionality to the system. Instead, these capabilities are built into the imagePlatform architecture and can be activated simply by entering a code at the control panel.

+ The Remote User Interface is very easy to navigate and offers a broad range of functionality. It allows remote configuration of network settings, setup of LDAP and authentication, viewing of counters for every function (copy, print, send, receive) and remote programming and management of addresses for scan, e-mail, fax and Internet fax, as well as management of mailboxes.

○ The Remote User Interface also provides device status information such as the approximate amount of available paper, although information on remaining toner is vague (i.e., "some").

+ The Web utility provides extensive information on jobs via the job management tab. Information includes user name, status of the job and number of pages. There are separate logs for print jobs, copy jobs, send jobs and receive faxes.

+ The Remote User Interface allows direct printing of PDF files.

+ Plug-ins for HP Web Jetadmin are made available for Canon products, so users of this popular management utility will be able to use it to manage Canon devices, as well.

Ease of Network Setup — VERY GOOD

○ Configuration of network settings can be easily performed both from the control panel or remotely via the Remote User Interface.

+ Installation was very simple and automated overall.

– The print drivers do not auto-launch upon insertion of the CD into the drive. In addition, each of the unit's drivers requires a separate installation.

+ An installation utility built into the drivers CD automatically locates the machine and creates the port. For administrators who prefer to create the port manually, Canon provides a utility that walks the user through the process.

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+ The drivers automatically detect configured accessories, eliminating the need for an administrator to manually specify configured accessories.

+ Drivers for multiple imageRUNNERs (for example, the 4570 and 6570, can be installed at one time.

+ Greatly enhancing setup is the organization of PPDs into separate folders on the CD, making it very easy for an administrator to find the correct PPD. In contrast, searching for PPDs with other systems requires browsing through many files (for different models, applications, languages and operating systems).

+ Facilitating the setup of multiple devices in a large installation is the Device Information Delivery Function, which enables an administrator to remotely copy all the settings of the imageRUNNER 4570 (such as default settings, fax and e-mail destinations, etc.) to as many as 100 "70 series" imageRUNNERs. An administrator can also assign ascending IP addresses to multiple devices all at once by entering a beginning range and an ending range.

+ Also aiding in the management of large installations is the optional Print Server Appliance, which enables users to download preconfigured drivers from the Web page of the Print Server Appliance, eliminating the need for an administrator to manually load drivers onto each workstation.

Feedback to Workstations — FAIR

– There are no pop-up error messages or icon alerts to notify end users of warning conditions. Users must proactively check the Web page to check on device or print job status.

○ The Print Monitor utility, which requires the administrator to create a port using Canon LPR 2.0 (which is a bit awkward since a standard TCP/IP port is already created during installation of the imageRUNNER 4570) provides pop-up job status messages indicating a job has been sent. Since the messaging is limited, BLI recommends using the automated installation routine.

+ NetSpot Console can be configured to send pop-up error messages to one or more administrators.

– Information regarding the amount of remaining paper and the size of paper is displayed in the driver when clicking on a paper source, provided Canon's automated installation is used; however, obtaining accurate information requires the user to first select to update status information, which requires numerous steps (12 clicks of the mouse). Further, it was observed that if a port is created manually using Canon's LPR 2.0 port creation utility, which is required to run

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the Job Monitor utility, the information on available paper status from the print driver was inaccurate, even after updating status information. And since users may not realize the paper size or capacity information they see on the image of the device in the driver may not be accurate, it could result in wasted paper and productivity.

○ E-mail notifications of completed copy and scan jobs can be set up, but BLI test technicians observed that users were not notified that a scan job was not sent after attempting to send an e-mail to an incorrect address.

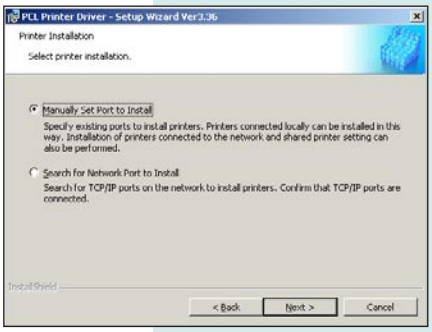
\+ E-mail notifications of errors can also be sent to designated operators.

\+ The Remote User Interface enables users to check device status, such as the approximate amount of remaining paper, as well as toner, staples and punch waste gauges.

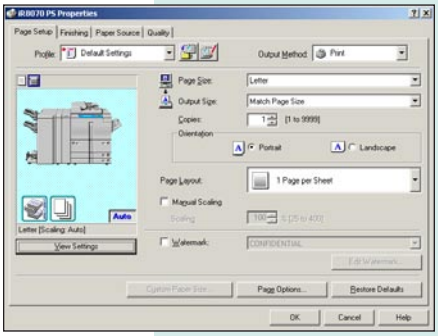
\+ Extensive information on the status of all types of jobs—print, fax, scan and copy—is available via the Remote User Interface.

Print Drivers

VERY GOOD


PCL Printer Driver - Setup Wizard Ver3.36
Printer Installation
Select printer installation.
Manually Set Port to Install
Specify existing ports to install printers. Printers connected locally can be installed in this way. Installation of printers connected to the network and shared printer setting can also be performed.
Search for Network Port to Install
Search for TCP/IP ports on the network to install printers. Confirm that TCP/IP ports are connected.
< Back
Next >
Cancel

PCL Print Driver Setup Wizard



PostScript Driver

\+ Configured as tested with the optional Multi-PDL Printer Kit-E1, which includes the network interface, the Canon imageRUNNER 4570 offers PCL 5e, PCL 6, PostScript 3 and Canon's UFR (Ultra Fast Rendering) II print drivers. When the UFR II driver is used, the processing load is shared between the imageRUNNER 4570 and the user's PC. All of the drivers share a similar layout and appearance, making use easier when switching between drivers.

\+ The drivers are graphical and easy to use, and enable point-and-click selection of the desired paper source.

– Some commonly used features cannot be programmed from the main screen. Duplexing and finishing, for example, are located under the finishing tab.

\+ The drivers offer a good feature set that includes secure print; proof print; promote print, which enables users to move their job ahead of others in the queue; the ability to save settings of frequently used jobs as profiles that can be applied to other print jobs in a single step; the ability to view selected settings; and the ability to select from up to three paper sources for a single job. Selecting Edit and Preview before printing a document automatically opens the Canon PageComposer utility to allow viewing the pages of the document as thumbnail images, deleting pages, changing the order of files, changing print settings, and combining two or more documents created in different applications into one file. The UFR II driver also has a selection for insertion of banner pages between print jobs.

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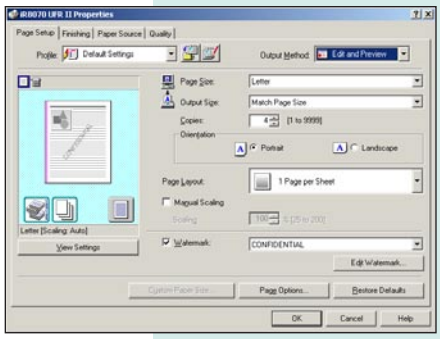

UFR II driver

\+ Another noteworthy feature is the ability to build complex jobs consisting of mixed paper sizes and orientations.

– Although an approximate amount of remaining paper is displayed when the user clicks on a particular paper drawer on a graphical depiction of the product in the driver, the information is not accurate unless the user first updates the information. Updating the information is not practical since it cannot be done within the application and is a procedure that requires 12 clicks of the mouse.

\+ The unit supports simultaneous RIP and print, which means that printing can begin while the document is still being processed and another can be processed while a job is printing.

\+ When printing multiple collated sets, Collate can be selected from either the print screen within the application or from the properties screen of the driver without increasing the size of the file.

– When a print job requiring a paper size that is not currently available on the device is sent to the device, other copy and print jobs sent to the device are held up until a user rectifies the situation.

Applications Compatibility

EXCELLENT

\+ No problems were experienced with any of the applications used in the applications compatibility tests. Units are tested for compatibility on Windows 2000 platforms with Microsoft Word 2000, Microsoft PowerPoint 2000, Microsoft Excel 2000, Adobe PageMaker 7.0, Adobe Photoshop 6.0 and Adobe Acrobat 6.0 using 25 application test files, which contain text, graphics, halftone images, tables, etc., enabling BLI technicians to evaluate memory usage, file processing, font rendering and grayscale capability.

Scan Functions

EXCELLENT

\+ BLI tested the imageRUNNER 4570 with optional Universal Send, which offers very easy-to-use and feature-rich scan functionality. It supports network authentication (whereby users can be required to enter their network user name and password to access the unit's functions) and LDAP, which means that users can search for e-mail addresses residing on network mail servers (up to five LDAP directories can be searched) from the control panel of the imageRUNNER. LDAP searches are not possible from the Web utility. Destinations can also be easily programmed remotely from the Web utility or manually entered at the control panel's QWERTY keypad, in spite of the unit's relatively small keys.

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+ Universal Send supports scanning to e-mail, Internet fax destinations, FTP sites and the desktops of users running eCopy Desktop (optional software that allows users to work with and OCR scanned documents). Further, users can send a document to multiple types of destinations in one session.

+ Unlike other scan solutions BLI has tested, Universal Send displays a preview of the scanned image that users can check before sending the file.

+ Another noteworthy feature of Universal Send is embedded URL Send, which automatically sends a link to a recipient, rather than an entire document (the link is created automatically when a user selects the function); the recipient can use the link to access the document stored on the hard drive of the imageRUNNER. By eliminating the need to have very large documents transmitted across the network, this feature reduces network traffic.

+ An optional PDF Enhancement Kit for Universal Send provides two noteworthy capabilities. It enables OCRing of scanned documents so that they are searchable and it can encrypt scanned documents to keep them secure. The recipient enters a password to decrypt and print the file.

+ As the Canon imageRUNNER 4570 incorporates the company's MEAP technology (which enables it to run applications that add capabilities or customize the control panel), this unit can be used with optional eCopy ShareScan OP for MEAP. BLI considers eCopy to be an outstanding scan solution that is very easy to use and manage and provides seamless integration that enables users to scan directly into more than 20 document management and other enterprise applications.

– Unlike with most other devices, when setting up scanning, the default domain must be used and DNS has to be enabled in order for LDAP support to function.

+ BLI test technicians praised the ease of use of the Universal Send scan function.

+ TWAIN scanning is also possible via Network ScanGear, which is bundled with the Multi-PDL Print Kit-E1. Setting up ScanGear was also easy, because the device is auto located.

○ By default, the maximum size allowed for e-mail jobs is 3 MB (larger files will be split up and sent as multiple files), but this threshold can be adjusted from 1 MB to 99 MB.

Print / Copy Quality — VERY GOOD

+ In print mode, output was rated Excellent for text and line art and Very Good for halftones and solids.

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+ In copy mode, solids were rated Excellent and all other aspects of output quality were rated Very Good.

Print / Copy Productivity

GOOD

- Overall print efficiency of the imageRUNNER 4570 in both simplex and duplex modes is competitive for models in this range.
- The unit's efficiency in the job stream test is also competitive for models in this group.
- First-copy time from the platen, at 5.9 seconds, is competitive, while first-copy time from the document feeder, at 9.7 seconds, is slower than the average, and, in fact, the slowest for units in this group.
- In copy mode, overall efficiency is competitive in all three primary copy modes (1:1, 1:2 and 2:2).
- Employing Induction Heating (IH) technology, which, according to Canon, reduces power consumption as a result of the fusing unit's fast heating, the unit has a manufacturer-rated warm-up time of 30 seconds.

Ease of Use

EXCELLENT

+ The imageRUNNER 4570 features the same highly intuitive 6-1/4" x 4-5/8" color LCD touch-screen control panel as other imageRUNNERs, which is a favorite of BLI test technicians.
+ The default main screen lists selections for Copy, Send and Mailbox keys. Users can specify one of the other menus or a screen for a MEAP application to be the default screen for walk-up users.
- Although not all of the features needed to specify typical copy jobs can be programmed from the main copy screen, they are all are easily found on the main screen and, when selected, bring up the additional screens required to program the function.
+ The imageRUNNER 4570 offers outstanding guidance to users via context-sensitive instructions, which are automatically displayed to walk users step by step through the process of programming functions.
+ Enhancing ease of use from the control panel are a contrast adjustment dial for the display, a Help key that provides information on a range of topics, the ability to review the settings for a job, and a very detailed job queue with information on the current job (including the number of sets programmed and the number of

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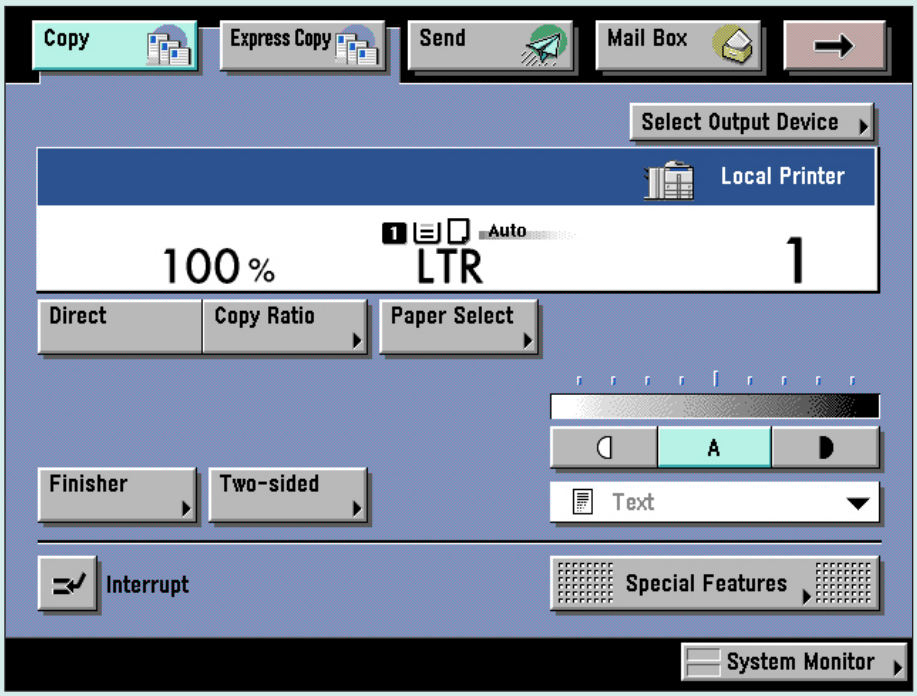

Canon imageRUNNER 4570 Control Panel

sets produced) and pending copy and print jobs. Users can view separate queues for copy, fax, send (scan) and receive jobs. The print queue lists both print and copy jobs. While copy jobs can be deleted with the Stop hard key, print jobs can be deleted by highlighting the job, selecting Cancel and then confirming the desire to delete the job by responding to a prompt. Jobs can be moved up to the next position in the queue using the Print Next key.

\+ Secure print jobs can be released either at the control panel or remotely via the Web utility.

– Secure print jobs can be printed only one at a time, as opposed to some systems that allow batch printing of all secure jobs of a particular user.

– A secure print job can be deleted from the control panel without entering the password.

\+ The Counter Check hard key on the control panel allows the user to easily access meter count information for total copies, prints and scans, as well as a meter for MEAP, without having to search through various screens on the display to find this information. However, the meter report cannot be printed from the control panel.

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+ In addition to changing the default mode of the unit for walk-up users (i.e., copy, scan), users can customize the control panel by moving features to the main screen.

+ Although users must press a button to open the drawers and loading paper into the bypass tray requires lifting up a lever, the unit also received good marks for ease of loading paper, which can be accomplished while the unit is running. There are no spring-loaded ramps to hold down and no corner separators to impede access.

+ Replacing the toner cartridge was a simple and clean procedure.

– Although the paper drawers have a sliding width guide, the length guide must be removed and reinserted into the correct position. Additionally, as the drawers do not automatically detect paper size, the user must adjust a dial at the front of the paper drawer to register the new size. If users don't register the new size, the wrong size paper will be indicated at the control panel and misfeeding could occur. In addition, users must specify the size of paper loaded in the bypass tray at the control panel.

+ BLI test technicians praised the guidance provided by the graphical illustrations and messages that appear on the display to help the user clear misfeeds. The only criticisms cited were that the instructions did not explain how to move the unit's finisher toward the front of the unit for misfeed access and the finisher itself is not clearly labeled. In addition, the error indicator did not clear after misfeeds were removed.

– Note that that if a user is not careful when closing the right side door, the upper portion of the door may not completely close, which could result in a misfeed.

+ Canon provides excellent and comprehensive documentation.

Feature Set

GOOD

○ The imageRUNNER 4570 has a competitive feature set that includes a standard paper capacity of 1,100 sheets from two drawers that support up to 20-lb. bond, plus a bypass tray that accommodates up to 32-lb. stock. Note that while the bypass tray has a competitive 50-sheet capacity, about half the models in this group accommodate heavier weights through the bypass.

+ Paper capacity can be expanded to 4,750 sheets from six sources, which is higher than that of most competitive units.

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– The optional reversing automatic document feeder has a capacity of 50 sheets, which is lower than average for competitive units, and its document feeder speed, at 28 originals a minute, is the slowest of all competitive models.

○ Other features include the ability to make up to 999 copies in a single run and 300 copy control codes.

+ The unit is available with a choice of finishers. BLI tested the internal 1,000-sheet finisher, which sits within the footprint of the unit and is noteworthy in that not only does it staple up to 50 sheets per set, but it also features hole-punching and an optional second tray. Canon claims this is an industry first. Also offered are an external 50-sheet stapling finisher and a saddle finisher that V folds up to 15 sheets to make booklets of up to 60 pages.

+ In addition to offering watermark printing, this unit offers page numbering and date printing to meet the Bates stamping requirement of the legal market.

The imageRUNNER 4570 also offers cascade copying, whereby one job can be produced faster by being output by multiple imageRUNNERs. With remote copying, users can scan a job on one imageRUNNER and have it output on another.

+ This unit also offers a choice of scan options (see "Scan Functions").

○ The unit offers 512 MB of RAM and a 20-GB hard disk drive (HDD) to store documents in mail boxes, with the number of documents that can be stored in a mailbox limited only by memory. Further, the contents of the mail boxes can backed up via the Remote User Interface onto another device or server, for example.

+ The imageRUNNER 4570 offers traditional fax capability with single- or dual-line fax options. Fax features include a 33.6-Kbps modem with JBIG compression, multi-access, 200 one-touch or speed-dial buttons, book mode faxing and two-sided transmission and reception. PC and network faxing are also available with the optional fax boards.

Security and Accessibility Features

NOT RATED

+ In addition to offering secure print and network user authentication, the imageRUNNER 4570 offers an optional security kit that encrypts all information stored on the hard drive and can be used to overwrite information on the hard drive either on-demand or at specified times (e.g., upon start-up).

+ The PDF Encryption mode, which is included with the optional Universal Send PDF Enhancement Kit, enables users to encrypt a scanned document with either 40-bit or 128-bit encryption, set a password to open the docu-

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ment and set a separate password for recipients to edit, change or print the document.

Standard MAC address filtering allows administrators to limit which users can access the unit. In addition, NetSpot Console allows an administrator to restrict access based on IP address, NetBios name or DNS name, the ability for an administrator to erase all documents stored on the hard drive and network user authentication (whereby users can access the device only after entering the same user name and password as required to access their network-connected PC).

+ Several options contribute to Section 508 compliance. These include a Braille kit. They also include the Remote Operator's Software Kit, which enables users who are wheelchair bound, for example, to view the unit's control panel screens remotely from their desktops via emulation software that replicates the options available on the device's control panel. The optional Voice Guidance Kit, available later this year, allows users with visual impairments to receive audible confirmation of the settings they select for basic copy programming.

Toner Yield — FAIR

+ Tested toner yield is lower than average for units in this range tested to date.

Value — GOOD

+ The imageRUNNER 4570 is priced competitively with the average for comparably equipped models in its speed range and offers a cost per page for supplies that is also competitive with the average for tested Segment 4 units Its strong overall performance in the tests, along with its competitive pricing, make it a good value.

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Supporting Test Data

Test Environment

This product was tested in BLI's 10,000-square-foot test lab, in an environment monitored by a Honeywell Temp/RH chart recorder, which replicates typical office conditions.

Test Equipment

BLI's dedicated test network, consisting of Windows NT 4.0, 2000 and Microsoft Exchange servers, Windows XP Professional and Windows 2000 Professional workstations, 10BaseT/100BaseTX network switches and CAT5 cabling.

Test Duration

Products are tested for two months, one month of which consists of a durability test during which the product is run at its manufacturer-rated maximum monthly volume, with daily volumes divided evenly over the course of the test.

Tested Configuration

Base unit, plus optional Multi-PDL Print Kit-E1, internal finisher, LCT, Universal Send and the PDF Enhancement Kit.

Test Procedures

The test methods and procedures employed by BLI in its lab testing include BLI's proprietary procedures and industry-standard test procedures, including a BLI-developed variation of ASTM's 1318-90 Test Method for Determination of Productivity using Electrostatic Copy Machines. In addition to a number of proprietary test documents, BLI uses an industry-standard Katun test original for evaluating black image quality and test suites from Quality Logic to evaluate applications compatibility. In addition to a visual observation, color print quality is tested using the ANSI standard IT8 Color Test Target, which is read using the Minolta CM503I Spectrophotometer, and samples are analyzed using the CIE XY Chromaticity Diagram. In addition, density of black and color output is measured using an X-Rite 428 Densitometer.

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Reliability

PMs/Malfunctions	Service Required	Meter Count (Impressions)	Impressions Between Service
Meter count (beginning of test)		0	
Image quality	Performed PM*	160,000	
End of test period		170,000	
Total misfeeds / misfeed rate	4 / 1 per 42,500 impressions		
Service Calls	0		
PMs	1		
Total Service Calls (including PMs)	1		
M.I.B.F.[1]	Not applicable		
M.I.B.S.[2]	Not applicable		

** The unit has a scheduled PM interval interval of 60,000 impressions. A message indicating a PM was due was not displayed and inadvertently testing progressed without incident until image quality began to degrade at 160,000 impressions into the test. Had the PMs been performed on schedule, two would have been performed during the test.*

[1] Mean Impressions Between Failures (To obtain this number, BLI divides the total number of impressions produced during the test period by the number of service calls required. In actuality, it reflects the average number of impressions produced without a malfunction.)

[2] Mean Impressions Between Service (To obtain this number, BLI divides the total number of impressions produced during the test period by the number of service calls, including preventive maintenance calls, required. In actuality, it reflects the average number of impressions produced without a service call.)

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Multitasking

MULTITASKING EVALUATION

Primary Function \ Secondary Function	PRINT	SCAN	COPY
PRINT	Yes	Yes	Yes
SCAN	Yes	Yes	Yes
COPY	Yes	Yes	Yes

NOTES:

(X) indicates number of occurrences.

A "Yes" indicates that the user can initiate the secondary function while the primary function is taking place and that no further user intervention will be required for the secondary function to take place.

Note: In addition to a single-user multitasking test, which evaluates a unit's ability to initiate or perform one function while another function is already in progress (see chart above), BLI also tests a multifunctional product's ability to handle multiple jobs that would be likely to stack up in a multi-user networked environment.

Administrative Utilities

NetSpot Console Manager

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Print / Copy Quality

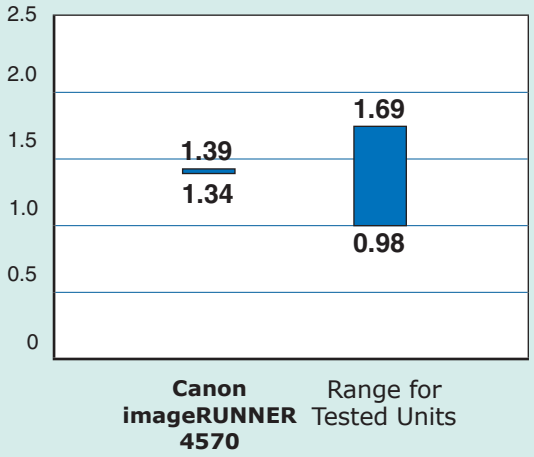
Print Quality	
Text	Very Good
Line Art	Very Good
Halftone Pattern / Range	Good/Very Good
Solids	Very Good

Print density:
1.34 to 1.39

Density for units in this class tested to date:
0.98 to 1.69

Halftone range:
Halftone output was visible from the 2% dot-fill level to the 95% dot-fill levels, although coverage within levels was grainy.

PRINT DENSITY



Measurements are based on four readings corresponding to four different solid black locations on the output. The higher the density reading, the darker the image.

Copy Quality	
Text	Very Good
Line Art	Very Good
Halftone Pattern / Range	Very Good
Solids	Very Good

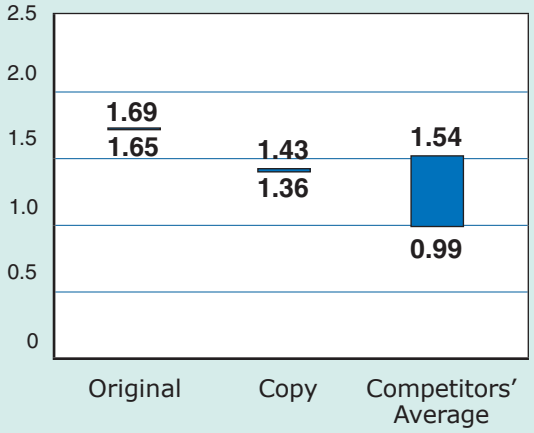
Density of original:
1.65 to 1.69

Density of copy:
1.36 to 1.43

Density for units in this class tested to date:
0.99 to 1.54

Halftone range:
Halftone output is visible from the 15% dot-fill level, which is the minimum coverage level on the original) to the 100% level, with distinct transitions between most levels and smooth coverage within levels.

COPY DENSITY



Measurements are based on eight readings corresponding to eight different solid black locations on the output. The higher the density reading, the darker the image.

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Print / Copy Productivity

Job Stream:

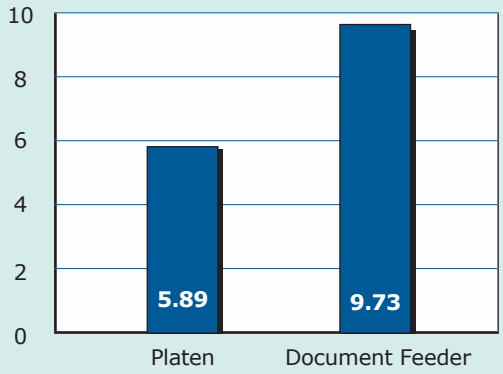
The unit completed the job stream in 42.40 seconds, running at 26.89 ppm, which translates to an efficiency rate of 59.75%.

BLI's job stream includes Word documents, Outlook e-mail messages, Excel spreadsheets, PowerPoint, HTML and Acrobat PDF files, totaling 19 pages. This test simulates the type of traffic a typical device might experience in a real-world, multi-user environment. All of the files are sent to the printer as a group, at which time the stopwatch begins; timing ends when the last page of the last file exits the device. Job stream efficiency is the percentage of the rated speed at which the unit operates when producing real-world jobs.

First-copy time:

5.89 seconds from the platen.
9.73 seconds from the document feeder.

First-Copy Time



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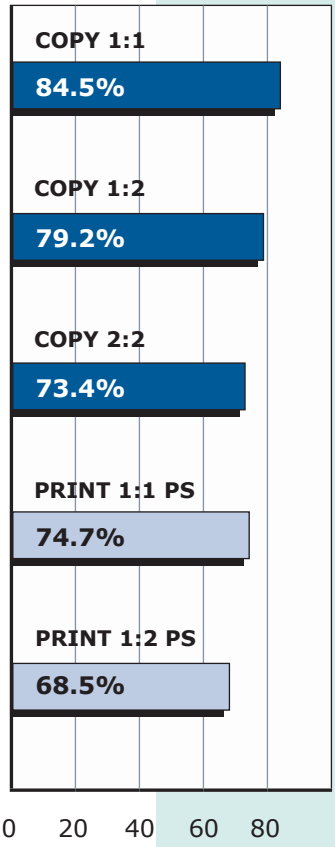
OVERALL EFFICIENCY



BLI obtains the overall efficiency for each copy/print mode by averaging the efficiency ratings (derived by dividing the tested speed of the device by the rated speed, and then multiplying by 100) for each run length (1,5, 10 and 20 sets in copy mode and 1 and 5 sets in print mode).

COPY/PRINT EFFICIENCY FOR MULTIPLE SETS

COPY	**1:1**				
Sets	Min.	Sec.	PPM	Efficiency	Overall Efficiency
1	0	21.51	27.9	62.0%	62.0%
5	1	17.47	38.7	86.1%	74.0%
10	2	23.47	41.8	92.9%	80.3%
20	4	35.41	43.6	96.8%	**84.5%**
COPY	**1:2**				
Sets	Min.	Sec.	PPM	Efficiency	Overall Efficiency
1	0	27	22.2	49.4%	49.4%
5	1	21.69	36.7	81.6%	65.5%
10	2	27.4	40.7	90.5%	73.8%
20	4	40.25	42.8	95.2%	**79.2%**
COPY	**2:2**				
Sets	Min.	Sec.	PPM	Efficiency	Overall Efficiency
1	1	9.05	17.4	38.6%	38.6%
5	2	56.34	34.0	75.6%	57.1%
10	5	8.9	38.8	86.3%	66.9%
20	9	34.06	41.8	92.9%	**73.4%**
PRINT	**1:1**				
Sets	Min.	Sec.	PPM	Efficiency	Overall Efficiency
1	0	22.07	27.2	60.4%	60.4%
5	1	14.99	40.0	88.9%	**74.7%**
PRINT	**1:2**				
Sets	Min.	Sec.	PPM	Efficiency	Overall Efficiency
1	0	25.27	23.7	52.8%	52.8%
5	1	19.18	37.9	84.2%	**68.5%**

Efficiency is tested using a 10-page document. In print mode, the document is printed using the PostScript driver at 600-dpi resolution.

Scan Functions

Scan speed (200-dpi, TIFF):

1:1 mode: 32.1 images per minute
2:2 mode: 8.4 originals, or 16.8 images per minute

Scan file size:

200-dpi PDF, black: 38 KB.
200-dpi TIFF, black: 35 KB
600-dpi PDF, black: 152 KB
600-dpi TIFF, black: 149 KB.

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Print Drivers

CANON IMAGERUNNER 4570 PRINT DRIVER FEATURES

	Windows 2000 PCL 6	Windows 2000 PS	Windows 2000 UFR II
Auto Feature/Device Detection	Yes	Yes	Yes
Booklet Printing	Yes	Yes	Yes
Collate Sets	Yes	Yes	Yes
Max paper sources per job	3	3	3
N-up Printing	2 to 16	2 to 16	2 to 16
Overlay	Yes	Yes	Yes
Paper Gauge	Yes	Yes	Yes
Print and Hold	Yes	Yes	Yes
Proof Print	Yes	Yes	Yes
Quantity Selection	Up to 9,999	Up to 9,999	Up to 9,999
Reduction/Enlargement	25% to 400%	25% to 400%	25% to 200%
Resolution Modes	600	600	600
Save Settings	Yes	Yes	Yes
Secure Printing	Yes	Yes	Yes
Watermarks/Custom Watermarks	Yes/Yes	Yes/Yes	Yes/Yes

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Toner Yield

TESTED TONER YIELD / SUPPLIES COST PER PAGE

Color	Net Weight (grams)	Toner Yield (Impressions)	Impressions Per Gram	Toner Cost Per Page[1]	Supplies Cost Per Page[2]
Black	1,195	20,196	16.9	0.344¢	0.344¢

[1] *Testing was conducted using BLI's toner yield test original with 6% page coverage.*

[2] *Supplies cost per page is based on BLI's tested toner yield and Canon's suggested retail pricing.*

Toner is the only supply item required by this unit.

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Specifications

BACKGROUND INFO

	Dataquest Segment 4
SRP (USA; Canada):	$11,200; Info not avail
Manufacturing Status:	New
Domestic Intro Date:	October 2004
OEM:	Canon (China)
Also Sold As:	None
Distribution:	Dealers and subsidiaries
Mfr's Rec Mo Vol:	Up to 170,000 copies

TYPE

	Monochrome copier, MF
Configuration/Scanner:	Console, digital
Toner:	Dry, monocomponent

GENERAL SPECIFICATIONS/PAPER HANDLING

First-Copy Time:	3.9 sec
Multicopy (Ltr/Lgl/Ldgr):	45/16/22 cpm
Warm-Up Time:	30 sec
Std Paper Source(s):	Dual drawer
Std Paper Capacity:	550/550 sheets
Paper Weights:	17 to 20 lbs
Bypass/Paper Weights:	50-sheet/17 to 32 lbs
Max Paper Sources/Capacity:	6/4,750 sheets
Max Original Size:	11 x 17
Min/Max Output Size:	4-1/8 x 5-7/8/11 x 17
Scan/Copy Resolution:	600 x 600 dpi/600 x 600 dpi
Std/Max Copier Memory:	512-MB RAM, 20-GB/ 512-MB RAM, 20-GB HD
Duplex:	Auto (1:2,2:2,2:1)
Capacity/Paper Sizes:	Unlimited/5-1/2 x 8-1/2 to 11 x 17
Document Feeder:	Opt RADF
Speed/Capacity:	28 opm/50 orig
Paper Weights:	13 to 32 lbs
Sorter (Bins/Capacity):	None/None
Stapler Sorter:	None
Bins/Stapling Capacity:	Not applicable
Stapling Positions:	Not applicable
Finisher:	Opt finishers
Tray/Stapling/Position(s):	2,000/50, 50, 50/1, 6, 7

Other: Opt 2-/3-hole punch for each finisher; opt envelope feeder (50 envelopes); opt 300-sheet add'l tray for finisher S1; opt 150-sheet copy tray

CONTROL PANEL

	Keypad and touch screen
Quantity Selector:	1 to 999 (0 to 9 keypad)
Message Display:	Yes
Help Key:	Yes

COPIER FEATURES

Automatic Features: AES, AMS, APS, AS, ATS

Book Copy:	Std	Job Time:	Yes
Booklet Mode:	Std	Language:	Std
Color:	No	Margin Shift:	Yes
Copy Control:	300	Neg/Pos:	Yes
Covers:	Std	OHP Interleaving:	Yes
Editing:	No	Photo Mode:	Yes
Energy-Save:	Yes	Poster Mode:	No
Erase:	Std	Preset R/E:	5R,4E
Image Insert:	No	Program Ahead:	Std
Image Overlay:	Std	Sheet Insertion:	Std
Image Repeat:	Yes	Stamping:	Std
Image Rotate:	Std	Timer:	No
Interrupt:	Yes	2-in-1:	Std
Job Build:	Std	XY Zoom:	Yes
Job Programs:	9	Zoom Range: 25 to 400 (1%)	

Other Features:
Mixed-size originals; 25% to 200% zoom range through the document feeder; chapterization; scan once, print many; page numbering; copy set numbering; watermark and date printing on copies

ADDITIONAL INFORMATION

Dimensions (H x W x D):	29.9" x 22.25" x 27.38"
Weight:	136 lbs
Power Requirements:	120 V, 10 A
Dedicated Outlet:	Yes
Energy Star-Compliant:	Yes
Operating Noise Level:	71 dB

COMMENTS

Opt saddle finisher has two trays (1,000/1,000), V folding of up to 15 sheets and opt 2-/3-hole punch; opt inner 2-way tray (250/100); incorporates Canon's MEAP (Multifunctional Embedded Application Platform) to allow customizable software applications to run within the machine

OPTIONS

RADF: $1,200
Dual 550-sheet cassette unit: $1,450
2,500-sheet paper deck: $2,100
Finisher Q-3/Saddle-stitch finisher: $2,700/$4,000
Document tray J1/Accessibility handle: $55/$139
Finisher S1/Braille kit: $1,230/$30
Add'l tray for finisher S1: $200
Puncher unit R1/Puncher unit M1 $670/$850
Inner 2-way tray/Copy tray J1: $100/$45
Envelope feeder/Platen cover: $160/$100

MAINTENANCE

Fuser Rollers: Two
Yield: 240,000/240,000
Cleaning Blades: Info not avail
Yield: Info not avail
Other: Info not avail
Yield: Info not avail
Fuser Oil: Not required
PM Schedule: 60,000/120,000

SUPPLIES

Photoconductor: Organic drum
Yield: 85,000
Price: $187
Toner: 1219g ctrdg
Yield: 24,000
% Coverage: 6%
Price: $69.50
Developer: Not applicable
Yield: Not applicable
Price: Not applicable

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MULTIFUNCTION MODES

Copier:	Std	Fax:	Opt
Internet Fax:	Opt	Network Fax:	Opt
Network Printer:	Opt	PC Fax:	Opt
Printer:	Opt	Scanner:	Opt

CONNECTIVITY SPECIFICATIONS

Operating System Support:	Mac 8+, Solaris 2.5, Novell 3.x, 4.x 5.x, 6.x*
Parallel Interface:	None
PC Fax/Print/Scan:	Not applicable
Serial Interface:	None
PC Fax/Print/Scan:	Not applicable
USB Interface:	Std
PC Fax/Print/Scan:	Yes/Yes/No
Network Interface:	Std Ethernet, opt wireless
Interface Type:	10/100BaseT, 802.11g
LAN Fax/Print/Scan:	Yes/Yes/Yes
Networks Supported:	
NetWare:	Yes
Windows NT:	Yes
AppleTalk:	Yes
UNIX:	Yes
AS/400:	Yes
Other:	

FACSIMILE SPECIFICATIONS

Scanner Technology:	CIS		
Compression Method:	MH/MR/MMR/JBIG		
Modem Speed:	33.6 Kbps		
Max TX Resolution:	600 x 600 lpi		
Gray Scale/Halftones:	256 levels		
Std/Max Fax Memory:	Shared		
Min/Max Orig Size (W x L):	5-1/2 x 8-1/2/11 x 17		
Max Paper/Print Width:	11/10.75		
Effective Scanning Width:	11		
Correct-Order Output:	Face down		
Batch Files:	Yes	Polling:	216
Battery Backup:	Yes	Relay Request:	Yes
Confid TX/RX:	Yes/Yes	Smoothing:	Yes
Dual Lines:	Opt	Timers:	To mem cap
Multi Access:	Yes	Transfer Hub:	Yes

Dialing Capabilities

Broadcasting (Groups/Dest):	256/256		
Redial (Attempts/Intervals):	1 to 10/2 to 99 min		
One Touch:	200	Speed Dial:	Info not avail

Other: Address book (1,800 destinations) including 200 one-touch numbers; 8,000 fax page storage; 1 memory RX button; 50 confidential mailboxes

CONNECTIVITY/MF OPTIONS

Multi-PDL printer kit E-1: $1,700
imageRUNNER security kit: $550
eCopy ScanStation: $3,995
eCopy ShareScan OP 2.0: $3,995
eCopy Desktop: $ not avail
Wireless LAN interface: $ not avail
G3 multi-line fax board: $1,275
Super G3 fax board: $995

INTERNET FAX SPECIFICATIONS

TX/RX:	Yes/Yes
Fax-To-E-Mail:	Yes

PC/NETWORK FAX SPECIFICATIONS

Connection Type:	Direct
Type:	PCL print-to-fax
TX/RX:	Yes/No

PRINTER SPECIFICATIONS

Engine Mfr/Model:	Canon/imageRUNNER 4570
Compatibility:	IBM PC, Mac
Speed:	45 ppm
Max Print Area:	10-3/4 x 16-3/4
Enhanced Resolution:	2400 x 600 dpi
Unenhanced Resolution:	600 x 600 dpi
Std/Max Printer Memory:	Shared
Controller Mfr/Model:	Canon/Multi-PDL printer kit E1
Processor/Bits/MHz:	Canon processor/INA/500
PDL/PCL:	PCL 5e/6, PostScript 3 emulation, UFR II
Controller Mfr/Model:	Not applicable
Processor/Bits/MHz:	Not applicable
PDL/PCL:	Not applicable
Controller Mfr/Model:	Not applicable
Processor/Bits/MHz:	Not applicable
PDL/PCL:	Not applicable

Other: 100 mailboxes; secure printing; Page Composer
UFR II print technology; optional encrypted printer driver

SCANNER AND IMAGE MANAGEMENT SPECIFICATIONS

Connection Type:	Network
Technology/Speed:	CCD/1.3 spp
Max Resolution:	600 x 600 dpi
TWAIN/ISIS Compatible:	Yes
Scan/Image Software:	Opt eCopy ScanStation Opt Canon Netowrk ScanGear
OCR Software:	Opt eCopy Desktop
File Mgmt Software:	Opt eCopy ShareScan OP 2.0
Scan-To-E-Mail:	Yes

Other: Supports LDAP and authentication; opt PDF enhancement kit offers OCR and encrypts scanned files

COMMENTS

*Also Win 9.x, NT 4.0, 2000, Me and XP

Universal Send PDF Enhancement kit: $1,000
Universal Send kit: $1,200
USB application interface board: $300
Expansion bus board: $100
Card reader C1/Basic Card set: $306/$167
Card reader kit: $44
Copy card set (1/2/3): $153/$336/$448
Copy control interface cable: $68

Info not avail = Info not provided by MFR. Specs were obtained from manufacturer/distributor and not confirmed by BLI testing.
(FAD IMAGE #13145)

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CERTIFICATE OF RELIABILITY

AWARDED TO

CANON U.S.A., INC.

For the performance of the

Canon imageRUNNER 4570

throughout BLI's in-house durability test.

This is to certify that when subjected to a 170,000-impression
Buyers Lab durability test in a networked environment,
the Canon imageRUNNER 4570 proved to be a highly reliable product.

ANTHONY F. POLIFRONE
MANAGING DIRECTOR

November 2005
DATE

THE LEADING INDEPENDENT OFFICE PRODUCTS TEST LAB AND BUSINESS CONSUMER ADVOCATE

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